

Algoflon® L105

Polytetrafluoroethylene

Solvay Specialty Polymers

Message:

Algoflon® L105 a white PTFE micronized powder produced from dispersion polymerization comprising loose agglomerates of sub-micron sized primary particles.

Algoflon® L105 can be de-agglomerated to sub-micron particle size by the application of shear providing a better dispersion and distribution of the PTFE particles in the application.

Designed for use in critical engineering and high end performance polymers and elastomers to improve wear resistance and low coefficient of friction and improve abrasion and tear resistance. Also used as thickener in greases and lubricants.

Main features of Algoflon® L105 include:

Medium Molecular Weight

Finely milled grade with good control of oversize and excellent thermal stability

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General Information			
Uses	Additive		
Appearance	White		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Specific surface area	> 7.5	m²/g	Internal method
Average particle size-Surface	25	µm	Internal method
Volume density	350	g/l	ASTM D4895
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	330 - 340	°C	ASTM D3418
Additional Information			

ProcessingFor dynamic, load-bearing applications (gears, cams, bearings, slides, etc.), Algoflon® L105 micronized PTFE can help provide:

Improved wear resistance

Increased pressure x velocity (PV) limits

Reduced friction and stick-slip response

Improved texturing effect

Algoflon® L105 can be used in a wide variety of different thermoplastics. Typical loadings are 5 - 20% by weight of the compound and the optimum loading is dependent by the resin type and the desired final properties of the part.Besides its main function as a friction and wear additive, Algoflon® L105 micronized powders can be also used at lower concentration to provide the following properties:

Processing aid to improve compounding and molding conditions

Mold release agent due to non-stick properties

Algoflon® L105 micronized PTFE can be incorporated into thermoplastics by pre-mixing or co-feeding with the base polymer using standard industrial equipment and technology. The compound can also be prepared by first using a masterbatch.Storage and Handling

The usual precautions for safe storage and handling of Algoflon® L105 should be taken according to material safety documentation and experience.

There will be no chemical deterioration of the Algoflon® L105 during proper storage.

Shelf life of Algoflon® L105 micronized powders will vary depending upon whether the recommended storage conditions are maintained and whether the material remains free from foreign contamination during storage time (not exposed to dirt, dust, water or other chemicals). The material should remain sealed in the original containers and storage conditions should provide for protection from temperature extremes as well as rain, snow or other wet environments (or such conditions which may damage the storage containers in which the product is stored).

Safety and Toxicology

Before using PTFE Algoflon® L micronized powders consult the product Material Safety Data Sheet and follow all label directions and handling precautions.

As with all PTFE materials, handling and processing should only be carried out in well ventilated areas. Vapor extractor units should be installed above processing equipment. Fumes must not be inhaled and eye and skin contact ought to be avoided. In case of skin contact wash with soap and water. In case of eye contact flush with water immediately and seek medical help. Do not smoke in areas contaminated with powder, vapor or fumes. See

Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

Algoflon® L105 is packaged in 20 kg non returnable drums. Each drum has one bag liner made of polyethylene resin.

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